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<u>L11</u>	14 and (ice or seaice)	29	<u>L11</u>
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<i>DB=USOC; PLUR=YES; OP=OR</i>			
<u>L9</u>	18 and (ice or seaice)	4	<u>L9</u>
<u>L8</u>	17 and sonar\$1	7	<u>L8</u>
<u>L7</u>	sar and radar	148	<u>L7</u>
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L6</u>	15 and (ice or seaice)	7	<u>L6</u>
<u>L5</u>	14 and sonar\$1	50	<u>L5</u>
<u>L4</u>	12 or 13	770	<u>L4</u>
<u>L3</u>	radar\$1.ti,ab. and sar	738	<u>L3</u>
<u>L2</u>	sar.ti,ab. and radar\$1	526	<u>L2</u>
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backscatter In: All Fields

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#### 1 Polarimetric backscattering from thin saline ice related to ice physical and morphological characteristics

*Nghiem, S.V.; Kwok, R.; Yueh, S.H.; Kong, J.A.; Tassoudji, M.A.; Hsu, C.C.; Gow, A.J.; Perovich, D.K.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International, Volume: 1, 8-12 Aug. 1994  
Pages:541 - 543 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(344 KB\)\]](#)   IEEE CNF

#### 2 A C-band backscatter model for lake ice in Alaska

*Wakabayashi, H.; Weeks, W.F.; Jeffries, M.O.;*

Geoscience and Remote Sensing Symposium, 1993. IGARSS '93. 'Better Understanding of Earth Environment', International, 18-21 Aug. 1993  
Pages:1264 - 1266 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(188 KB\)\]](#)   IEEE CNF

#### 3 Polarimetric backscattering signatures from thin saline ice under controlled laboratory conditions

*Nghiem, S.V.; Kwok, R.; Yueh, S.H.; Kong, J.A.; Tassoudji, M.A.; Hsu, C.C.; Gow, A.J.; Perovich, D.I.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International, Volume: 1, 8-12 Aug. 1994  
Pages:611 - 613 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(280 KB\)\]](#)   IEEE CNF

#### 4 Using ERS-1 SAR data to monitor the state of the Arctic Ocean sea ice surface between spring and autumn, 1992

*Schwartz, K.; Jeffries, M.O.; Li, S.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and

Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation',  
International , Volume: 3 , 8-12 Aug. 1994  
Pages:1759 - 1762 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(392 KB\)\]](#) [IEEE CNF](#)

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**5 Change monitoring of Antarctic sea ice using NSCAT dual-polarized backscatter measurements**

*Yueh, S.H.; Kwok, R.; Nghiem, S.V.; West, R.;*  
Geoscience and Remote Sensing Symposium Proceedings, 1998. IGARSS '98. 1998  
IEEE International , Volume: 4 , 6-10 July 1998  
Pages:2228 - 2230 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(304 KB\)\]](#) [IEEE CNF](#)

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**6 C-band polarimetric backscatter observations of Great Lakes ice**

*Nghiem, S.V.; Leshkevich, G.A.; Kwok, R.;*  
Geoscience and Remote Sensing Symposium Proceedings, 1998. IGARSS '98. 1998  
IEEE International , Volume: 3 , 6-10 July 1998  
Pages:1400 - 1402 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(244 KB\)\]](#) [IEEE CNF](#)

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**7 ERS-1 SAR backscatter modeling and interpretation of sea ice signatures**

*Askne, J.; Carlstrom, A.; Dierking, W.; Ulander, L.;*  
Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and  
Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation',  
International , Volume: 1 , 8-12 Aug. 1994  
Pages:162 - 164 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) [IEEE CNF](#)

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**8 Diurnal thermal cycling effects on microwave signatures of thin sea ice**

*Nghiem, S.V.; Kwok, R.; Yueh, S.H.; Gow, A.J.; Perovich, D.K.; Chih-Chien Hsu;*  
*Kung-Han Ding; Jin Au Kong; Grenfell, T.C.;*  
Geoscience and Remote Sensing, IEEE Transactions on , Volume: 36 , Issue:  
1 , Jan. 1998  
Pages:111 - 124

[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) [IEEE JNL](#)

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**9 The effect of inhomogeneous roughness on radar backscattering from slightly deformed sea ice**

*Dierking, W.; Carlstrom, A.; Ulander, L.M.H.;*  
Geoscience and Remote Sensing, IEEE Transactions on , Volume: 35 , Issue:  
1 , Jan. 1997  
Pages:147 - 159

[\[Abstract\]](#) [\[PDF Full-Text \(368 KB\)\]](#) [IEEE JNL](#)

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**10 Validation of a sea ice model using forward simulation of ERS-1 SAR data: a case study in the Beaufort Sea**

*Heinrichs, J.; Maslanik, J.; Steffen, K.;*  
Geoscience and Remote Sensing Symposium, 1996. IGARSS '96. 'Remote Sensing  
for a Sustainable Future.', International , Volume: 2 , 27-31 May 1996  
Pages:950 - 952 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(356 KB\)\]](#) [IEEE CNF](#)

**11 Model for estimating surface roughness of level and ridged sea ice using ERS-1 SAR**

*Carlstrom, A.; Ulander, L.M.H.; Hakansson, B.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation'. International , Volume: 1 , 8-12 Aug. 1994

Pages:168 - 170 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(332 KB\)\]](#) [IEEE CNF](#)

**12 ERS-1 investigations of Southern Ocean sea ice geophysics using combined Scatterometer and SAR images**

*Drinkwater, M.R.; Early, D.S.; Long, D.G.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation'. International , Volume: 1 , 8-12 Aug. 1994

Pages:165 - 167 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(372 KB\)\]](#) [IEEE CNF](#)

**13 Forward and inverse signature modeling for congelation ice**

*Winebrenner, D.P.; Sylvester, J.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation'. International , Volume: 1 , 8-12 Aug. 1994

Pages:620 - 622 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(204 KB\)\]](#) [IEEE CNF](#)

**14 A backscattering model for bubbles in lake ice and comparisons with satellite and airborne SAR data**

*Matsuoka, T.; Uratsuka, S.; Takahashi, A.; Kobayashi, T.; Satake, M.; Nadai, A.; Umehara, T.; Wakabayashi, H.; Nishio, F.;*

Geoscience and Remote Sensing Symposium, 1999. IGARSS '99 Proceedings. IEEE 1999 International , Volume: 1 , 28 June-2 July 1999

Pages:107 - 109 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(248 KB\)\]](#) [IEEE CNF](#)

**15 Analysis of backscattering from snow covers on Arctic and Antarctic sea ice**

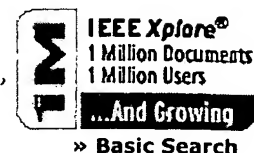
*Tjuatja, S.; Fung, A.K.; Bredow, J.; Hosseinmostafa, R.; Gogineni, S.; Lytle, V.;*

Geoscience and Remote Sensing Symposium, 1993. IGARSS '93. 'Better Understanding of Earth Environment'. International , 18-21 Aug. 1993

Pages:1035 - 1037 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(196 KB\)\]](#) [IEEE CNF](#)

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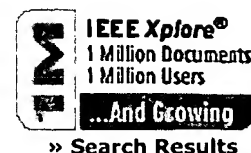
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*Malinas, N.P.; Shuchman, R.A.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International, Volume: 3, 8-12 Aug. 1994

Pages:1756 - 1758 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(216 KB\)\]](#) **IEEE CNF**

#### 2 Growler detection in sea clutter using Gaussian spectrum models

*Nohara, T.J.; Haykin, S.;*

Radar, Sonar and Navigation, IEE Proceedings - , Volume: 141, Issue: 5, Oct. 1994

Pages:285 - 292

[\[Abstract\]](#) [\[PDF Full-Text \(528 KB\)\]](#) **IEE JNL**

#### 3 IGARSS '98. Sensing and Managing the Environment. 1998 IEEE International Geoscience and Remote Sensing. Symposium Proceedings. (Cat. No.98CH36174)

Geoscience and Remote Sensing Symposium Proceedings, 1998. IGARSS '98. 1998 IEEE International, Volume: 1, 6-10 July 1998

[\[Abstract\]](#) [\[PDF Full-Text \(80 KB\)\]](#) **IEEE CNF**





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**1 Radar remote sensing of Great Lakes ice cover**

*Leshkevich, G.A.; Nghiem, S.V.;*

Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE International , Volume: 6 , 24-28 June 2002

Pages:3132 vol.6

[\[Abstract\]](#)   [\[PDF Full-Text \(385 KB\)\]](#)   IEEE CNF

**2 Study of the relationship between the scale of sea ice deformation and radar backscatter intensity using ERS-1 SAR**

*Onstott, R.G.; Miller, D.; Shuchman, R.A.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International , Volume: 1 , 10-14 July 1995

Pages:419 - 421 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(732 KB\)\]](#)   IEEE CNF

**3 Wave evolution in the marginal ice zone using ERS-1 SAR**

*Liu, A.K.; Peng, C.Y.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 3 , 8-12 Aug. 1994

Pages:1767 - 1769 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(200 KB\)\]](#)   IEEE CNF

**4 A feature extraction technique for synthetic aperture radar (SAR) sea ice imagery**

*Leen-Kiat Soh; Tsatsoulis, C.;*

Geoscience and Remote Sensing Symposium, 1993. IGARSS '93. 'Better Understanding of Earth Environment', International , 18-21 Aug. 1993

Pages:632 - 634 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(216 KB\)\]](#) [IEEE CNF](#)

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**5 Discrimination between young sea ice types from single look SAR image texture**

*Collins, M.J.; Livingstone, C.; Raney, R.K.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation'. International , Volume: 4 , 8-12 Aug. 1994

Pages:2158 - 2161 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(408 KB\)\]](#) [IEEE CNF](#)

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**6 Compatibility of sea ice edges detected in ERS-SAR images and SSM/I data**

*Schmidt, R.; Hunewinkel, T.;*

Geoscience and Remote Sensing, 1997. IGARSS '97. 'Remote Sensing - A Scientific Vision for Sustainable Development'. 1997 IEEE International , Volume: 1 , 3-8 Aug. 1997

Pages:417 - 419 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(580 KB\)\]](#) [IEEE CNF](#)

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**7 Polarimetric signatures of sea ice in the Greenland Sea**

*Skriver, H.; Pedersen, L.T.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International , Volume: 3 , 10-14 July 1995

Pages:1792 - 1794 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(860 KB\)\]](#) [IEEE CNF](#)

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**8 Observing seasonal transitions on sea ice in the Arctic using the ERS-1 SAR**

*Winebrenner, D.P.; Holt, B.; Nelson, E.D.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation'. International , Volume: 3 , 8-12 Aug. 1994

Pages:1763 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(32 KB\)\]](#) [IEEE CNF](#)

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**9 SAR derived sea ice thickness during ICEX'92**

*Malinas, N.P.; Shuchman, R.A.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation'. International , Volume: 3 , 8-12 Aug. 1994

Pages:1756 - 1758 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(216 KB\)\]](#) [IEEE CNF](#)

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**10 A wavelet transform coder supporting browsing and transmission of sea ice SAR imagery**

*Karvonen, J.; Simila, M.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 40 , Issue: 11 , Nov. 2002

Pages:2464 - 2485

[\[Abstract\]](#) [\[PDF Full-Text \(1440 KB\)\]](#) IEEE JNL

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**11 Analysis of ERS Tandem SAR coherence from glaciers, valleys, and fjord ice on Svalbard**

*Weydahl, D.J.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 39 , Issue: 9 , Sept. 2001

Pages:2029 - 2039

[\[Abstract\]](#) [\[PDF Full-Text \(416 KB\)\]](#) IEEE JNL

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**12 Focused synthetic aperture radar processing of ice-sounder data collected over the Greenland ice sheet**

*Legarsky, J.J.; Gogineni, S.P.; Akins, T.L.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 39 , Issue: 10 , Oct. 2001

Pages:2109 - 2117

[\[Abstract\]](#) [\[PDF Full-Text \(208 KB\)\]](#) IEEE JNL

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**13 Application of neural networks for sea ice classification in polarimetric SAR images**

*Hara, Y.; Atkins, R.G.; Shin, R.T.; Jin Au Kong; Yueh, S.H.; Kwok, R.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 33 , Issue: 3 , May 1995

Pages:740 - 748

[\[Abstract\]](#) [\[PDF Full-Text \(876 KB\)\]](#) IEEE JNL

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**14 Wave dispersion by frazil-pancake ice from SAR imagery**

*Wadhams, P.; De Carolis, G.; Parmiggiani, F.; Tadross, M.;*

Geoscience and Remote Sensing, 1997. IGARSS '97. 'Remote Sensing - A Scientific Vision for Sustainable Development', 1997 IEEE International , Volume: 2 , 3-8 Aug. 1997

Pages:862 - 864 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(396 KB\)\]](#) IEEE CNF

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**15 Multi-polarization C-band SAR signatures of arctic sea ice**

*Nghiem, S.V.; Bertoia, C.;*

Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International , Volume: 3 , 9-13 July 2001

Pages:1243 - 1245 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(385 KB\)\]](#) IEEE CNF

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Pages:1756 - 1758 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(216 KB\)\]](#)   **IEEE CNF**

#### 2 IGARSS '98. Sensing and Managing the Environment. 1998 IEEE International Geoscience and Remote Sensing. Symposium Proceedings. (Cat. No.98CH36174)

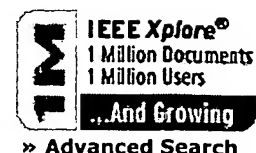
Geoscience and Remote Sensing Symposium Proceedings, 1998. IGARSS '98. 1998 IEEE International, Volume: 1, 6-10 July 1998

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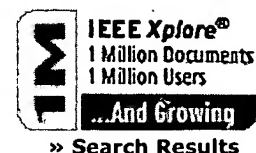
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**1 Diurnal thermal cycling effects on microwave signatures of thin sea ice**  
*Nghiem, S.V.; Kwok, R.; Yueh, S.H.; Gow, A.J.; Perovich, D.K.; Chih-Chien Hsu; Kung-Han Ding; Jin Au Kong; Grenfell, T.C.;*  
Geoscience and Remote Sensing, IEEE Transactions on , Volume: 36 , Issue: 1 , Jan. 1998  
Pages:111 - 124

[\[Abstract\]](#)   [\[PDF Full-Text \(336 KB\)\]](#)   **IEEE JNL**

**2 Validation of a sea ice model using forward simulation of ERS-1 SAR data: a case study in the Beaufort Sea**  
*Heinrichs, J.; Maslanik, J.; Steffen, K.;*  
Geoscience and Remote Sensing Symposium, 1996. IGARSS '96. 'Remote Sensing for a Sustainable Future.', International , Volume: 2 , 27-31 May 1996  
Pages:950 - 952 vol.2

[\[Abstract\]](#)   [\[PDF Full-Text \(356 KB\)\]](#)   **IEEE CNF**

**3 ERS-1 SAR backscatter modeling and interpretation of sea ice signatures**  
*Askne, J.; Carlstrom, A.; Dierking, W.; Ulander, L.;*  
Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 1 , 8-12 Aug. 1994  
Pages:162 - 164 vol.1

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**4 Using ERS-1 SAR data to monitor the state of the Arctic Ocean sea ice surface between spring and autumn, 1992**  
*Schwartz, K.; Jeffries, M.O.; Li, S.;*  
Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 3 , 8-12 Aug. 1994  
Pages:1759 - 1762 vol.3

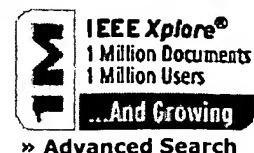


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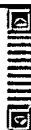
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### 1 Study of the relationship between the scale of sea ice deformation and radar backscatter intensity using ERS-1 SAR

*Onstott, R.G.; Miller, D.; Shuchman, R.A.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International, Volume: 1, 10-14 July 1995

Pages:419 - 421 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(732 KB\)\]](#)   IEEE CNF

### 2 Discrimination between young sea ice types from single look SAR image texture

*Collins, M.J.; Livingstone, C.; Raney, R.K.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International, Volume: 4, 8-12 Aug. 1994

Pages:2158 - 2161 vol.4

[\[Abstract\]](#)   [\[PDF Full-Text \(408 KB\)\]](#)   IEEE CNF

### 3 Polarimetric signatures of sea ice in the Greenland Sea

*Skriver, H.; Pedersen, L.T.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International, Volume: 3, 10-14 July 1995

Pages:1792 - 1794 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(860 KB\)\]](#)   IEEE CNF

### 4 Observing seasonal transitions on sea ice in the Arctic using the ERS-1 SAR

*Winebrenner, D.P.; Holt, B.; Nelson, E.D.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation',

International , Volume: 3 , 8-12 Aug. 1994  
Pages:1763 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(32 KB\)\]](#) [IEEE CNF](#)

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**5 SAR derived sea ice thickness during ICEX'92**

*Malinas, N.P.; Shuchman, R.A.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation'.  
International , Volume: 3 , 8-12 Aug. 1994  
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**6 Compatibility of sea ice edges detected in ERS-SAR images and SSM/I data**

*Schmidt, R.; Hunewinkel, T.;*

Geoscience and Remote Sensing, 1997. IGARSS '97. 'Remote Sensing - A Scientific Vision for Sustainable Development'.  
1997 IEEE International , Volume: 1 , 3-8 Aug. 1997  
Pages:417 - 419 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(580 KB\)\]](#) [IEEE CNF](#)

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**7 Wave evolution in the marginal ice zone using ERS-1 SAR**

*Liu, A.K.; Peng, C.Y.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation'.  
International , Volume: 3 , 8-12 Aug. 1994  
Pages:1767 - 1769 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(200 KB\)\]](#) [IEEE CNF](#)

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**8 A wavelet transform coder supporting browsing and transmission of sea ice SAR imagery**

*Karvonen, J.; Simila, M.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 40 , Issue: 11 , Nov. 2002  
Pages:2464 - 2485

[\[Abstract\]](#) [\[PDF Full-Text \(1440 KB\)\]](#) [IEEE JNL](#)

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**9 Application of neural networks for sea ice classification in polarimetric SAR images**

*Hara, Y.; Atkins, R.G.; Shin, R.T.; Jin Au Kong; Yueh, S.H.; Kwok, R.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 33 , Issue: 3 , May 1995  
Pages:740 - 748

[\[Abstract\]](#) [\[PDF Full-Text \(876 KB\)\]](#) [IEEE JNL](#)

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**10 Multi-polarization C-band SAR signatures of arctic sea ice**

*Nghiem, S.V.; Bertoia, C.;*

Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International , Volume: 3 , 9-13 July 2001  
Pages:1243 - 1245 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(385 KB\)\]](#) [IEEE CNF](#)

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**11 A new SAR inversion scheme for ocean waves travelling into sea ice**

*Schulz-Stellenfleth, J.; Lehner, S.;*

Geoscience and Remote Sensing Symposium, 1999. IGARSS '99 Proceedings. IEEE 1999 International , Volume: 4 , 28 June-2 July 1999

Pages:2010 - 2012 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(316 KB\)\]](#) [IEEE CNF](#)

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**12 Measuring the thermodynamic state of sea ice using synthetic aperture radar (SAR) time series data**

*Yackel, J.J.; Barber, D.G.;*

Geoscience and Remote Sensing Symposium Proceedings, 1998. IGARSS '98. 1998 IEEE International , Volume: 2 , 6-10 July 1998

Pages:989 - 991 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(256 KB\)\]](#) [IEEE CNF](#)

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**13 Wave spectra of SAR imagery of the Odden ice tongue**

*Wadhams, P.; Parmiggiani, F.; Tadross, M.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International , Volume: 1 , 10-14 July 1995

Pages:630 - 633 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) [IEEE CNF](#)

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**14 ERS-1 investigations of Southern Ocean sea ice geophysics using combined Scatterometer and SAR images**

*Drinkwater, M.R.; Early, D.S.; Long, D.G.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 1 , 8-12 Aug. 1994

Pages:165 - 167 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(372 KB\)\]](#) [IEEE CNF](#)

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**15 Utilizing the dynamic behavior of sea ice for determining ice thickness distributions in SAR imagery**

*Haverkamp, D.; Tsatsoulis, C.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 3 , 8-12 Aug. 1994

Pages:1753 - 1755 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(308 KB\)\]](#) [IEEE CNF](#)

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*Beaven, S.G.; Gogineni, S.P.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International, Volume: 1, 10-14 July 1995

Pages:634 - 637 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(360 KB\)\]](#)   IEEE CNF

### 2 Seasonal variations in active microwave signatures of sea ice in the Greenland Sea during 1992 and 1993

*Thomsen, B.B.; Skriver, H.; Pedersen, L.T.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International, Volume: 1, 10-14 July 1995

Pages:644 - 646 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(296 KB\)\]](#)   IEEE CNF

### 3 A backscattering model for bubbles in lake ice and comparisons with satellite and airborne SAR data

*Matsuoka, T.; Uratsuka, S.; Takahashi, A.; Kobayashi, T.; Satake, M.; Nadai, A.; Umehara, T.; Wakabayashi, H.; Nishio, F.;*

Geoscience and Remote Sensing Symposium, 1999. IGARSS '99 Proceedings. IEEE 1999 International, Volume: 1, 28 June-2 July 1999

Pages:107 - 109 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(248 KB\)\]](#)   IEEE CNF

### 4 Simultaneous scatterometer and radiometer measurements of sea-ice microwave signatures

*Gray, A.; Hawkins, R.; Livingstone, C.; Arsenault, L.; Johnstone, W.;*

Oceanic Engineering, IEEE Journal of, Volume: 7, Issue: 1, Jan 1982

Pages:20 - 32

[\[Abstract\]](#) [\[PDF Full-Text \(1432 KB\)\]](#) IEEE JNL

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**5 Incidence angle dependence of the statistical properties of C-band HH-polarization backscattering signatures of the Baltic Sea ice**

*Makynen, M.P.; Manninen, A.T.; Simila, M.H.; Karvonen, J.A.; Hallikainen, M.T.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 40 , Issue: 12 , Dec. 2002

Pages:2593 - 2605

[\[Abstract\]](#) [\[PDF Full-Text \(1174 KB\)\]](#) IEEE JNL

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**6 A microwave backscattering model for deformed first-year sea ice and comparisons with SAR data**

*Carlstrom, A.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 35 , Issue: 2 , March 1997

Pages:378 - 391

[\[Abstract\]](#) [\[PDF Full-Text \(632 KB\)\]](#) IEEE JNL

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**7 Incidence angle dependence of the mean C-band HH-polarization backscattering signatures of the Baltic Sea ice**

*Makynen, M.; Manninen, T.; Simila, M.; Karvonen, J.; Hallikainen, M.;*

Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE International , Volume: 3 , 24-28 June 2002

Pages:1518 - 1520 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) IEEE CNF

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**8 Polarimetric signatures of sea ice in the Greenland Sea**

*Skriver, H.; Pedersen, L.T.;*

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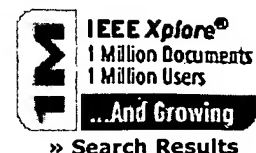
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#### 1 Effect of summer-to-fall transition on ERS-1 SAR and SSM/I images of sea ice

*Beaven, S.G.; Gogineni, S.P.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International, Volume: 1, 10-14 July 1995

Pages:634 - 637 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(360 KB\)\]](#)   IEEE CNF

#### 2 Seasonal variations in active microwave signatures of sea ice in the Greenland Sea during 1992 and 1993

*Thomsen, B.B.; Skriver, H.; Pedersen, L.T.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International, Volume: 1, 10-14 July 1995

Pages:644 - 646 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(296 KB\)\]](#)   IEEE CNF

#### 3 A backscattering model for bubbles in lake ice and comparisons with satellite and airborne SAR data

*Matsuoka, T.; Uratsuka, S.; Takahashi, A.; Kobayashi, T.; Satake, M.; Nadai, A.; Umehara, T.; Wakabayashi, H.; Nishio, F.;*

Geoscience and Remote Sensing Symposium, 1999. IGARSS '99 Proceedings. IEEE 1999 International, Volume: 1, 28 June-2 July 1999

Pages:107 - 109 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(248 KB\)\]](#)   IEEE CNF

#### 4 Simultaneous scatterometer and radiometer measurements of sea-ice microwave signatures

*Gray, A.; Hawkins, R.; Livingstone, C.; Arsenault, L.; Johnstone, W.;*

Oceanic Engineering, IEEE Journal of, Volume: 7, Issue: 1, Jan 1982

Pages:20 - 32

[\[Abstract\]](#) [\[PDF Full-Text \(1432 KB\)\]](#) IEEE JNL

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**5 Incidence angle dependence of the statistical properties of C-band HH-polarization backscattering signatures of the Baltic Sea ice***Makynen, M.P.; Manninen, A.T.; Simila, M.H.; Karvonen, J.A.; Hallikainen, M.T.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 40 , Issue: 12 , Dec. 2002

Pages:2593 - 2605

[\[Abstract\]](#) [\[PDF Full-Text \(1174 KB\)\]](#) IEEE JNL

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**6 A microwave backscattering model for deformed first-year sea ice and comparisons with SAR data***Carlstrom, A.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 35 , Issue: 2 , March 1997

Pages:378 - 391

[\[Abstract\]](#) [\[PDF Full-Text \(632 KB\)\]](#) IEEE JNL

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**7 Incidence angle dependence of the mean C-band HH-polarization backscattering signatures of the Baltic Sea ice***Makynen, M.; Manninen, T.; Simila, M.; Karvonen, J.; Hallikainen, M.;*

Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE International , Volume: 3 , 24-28 June 2002

Pages:1518 - 1520 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) IEEE CNF

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**8 Polarimetric signatures of sea ice in the Greenland Sea***Skriver, H.; Pedersen, L.T.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International , Volume: 3 , 10-14 July 1995

Pages:1792 - 1794 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(860 KB\)\]](#) IEEE CNF

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## Gregory, Bernarr

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**From:** PLUS  
**Sent:** Tuesday, October 05, 2004 11:50 AM  
**To:** Gregory, Bernarr  
**Subject:** PLUS Results for 10697293

Here are the PLUS search results for 10697293.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to [PLUS@uspto.gov](mailto:PLUS@uspto.gov).



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PLUS Search Results for S/N 10697293, Searched October 05, 2004

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system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are

most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10697293 on October 05, 2004

Original Classifications

13	405/217
7	114/40
5	340/583
5	405/211
4	62/542
3	62/123
3	342/26R
3	405/224
3	405/61
2	40/552
2	62/140
2	62/532
2	114/230.14
2	114/265
2	250/339.11
2	299/8
2	343/709
2	356/338
2	356/73
2	367/21
2	405/169
2	405/196
2	405/205
2	440/113
2	702/3

Cross-Reference Classifications

22	405/217
16	405/211
15	405/61
8	114/40
8	405/195.1
4	62/123
4	210/774
4	340/580
4	405/203
3	62/260
3	62/532
3	62/544
3	114/265
3	340/583
3	356/301
3	405/204

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3 405/207  
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Combined Classifications

35 405/217  
21 405/211  
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10697293\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10697293 on October 05, 2004

35	405/217	(13 OR, 22 XR)
	Class 405 :	HYDRAULIC AND EARTH ENGINEERING
	405/195.1	MARINE STRUCTURE OR FABRICATION THEREOF
	405/217	.In or on frozen media
21	405/211	(5 OR, 16 XR)
	Class 405 :	HYDRAULIC AND EARTH ENGINEERING
	405/195.1	MARINE STRUCTURE OR FABRICATION THEREOF
	405/211	.Structure protection
18	405/61	(3 OR, 15 XR)
	Class 405 :	HYDRAULIC AND EARTH ENGINEERING
	405/52	FLUID CONTROL, TREATMENT, OR CONTAINMENT
	405/60	.Floatable matter containment
	405/61	..Ice
15	114/40	(7 OR, 8 XR)
	Class 114 :	SHIPS
	114/40	ICE BREAKERS
8	340/583	(5 OR, 3 XR)
	Class 340 :	COMMUNICATIONS: ELECTRICAL
	340/500	CONDITION RESPONSIVE INDICATING SYSTEM
	340/540	.Specific condition
	340/580	..Ice formation
	340/583	...Photoelectric
8	405/195.1	(0 OR, 8 XR)
	Class 405 :	HYDRAULIC AND EARTH ENGINEERING
	405/195.1	MARINE STRUCTURE OR FABRICATION THEREOF
7	62/123	(3 OR, 4 XR)
	Class 062 :	REFRIGERATION
	62/123	SEPARATOR FOR SOLIDIFIED CONSTITUENT OF LIQUID MIXTURE
5	62/532	(2 OR, 3 XR)
	Class 062 :	REFRIGERATION
	62/56	PROCESSES
	62/532	.Fractionally solidifying a constituent and separating the same
5	62/542	(4 OR, 1 XR)

10697293\_CLSTITLES

	Class	062	:	REFRIGERATION
	62/56			PROCESSES
	62/532			.Fractionally solidifying a constituent and separating the same
	62/542			..Using melted solid to wash solidified constituent
5	114/265	(2 OR, 3 XR)		
	Class	114	:	SHIPS
	114/264			FLOATING PLATFORM
	114/265			.Multiple leg
4	62/260	(1 OR, 3 XR)		
	Class	062	:	REFRIGERATION
	62/259.1			STRUCTURAL INSTALLATION
	62/260			.Geographic, e.g., subterranean feature
4	62/544	(1 OR, 3 XR)		
	Class	062	:	REFRIGERATION
	62/56			PROCESSES
	62/532			.Fractionally solidifying a constituent and separating the same
	62/544			..With stirring, agitating or scraping of the solidification zone
4	210/774	(0 OR, 4 XR)		
	Class	210	:	LIQUID PURIFICATION OR SEPARATION
	210/600			PROCESSES
	210/767			.Separating
	210/774			..Including temperature change
4	340/580	(0 OR, 4 XR)		
	Class	340	:	COMMUNICATIONS: ELECTRICAL
	340/500			CONDITION RESPONSIVE INDICATING SYSTEM
	340/540			.Specific condition
	340/580			..Ice formation
4	405/203	(0 OR, 4 XR)		
	Class	405	:	HYDRAULIC AND EARTH ENGINEERING
	405/195.1			MARINE STRUCTURE OR FABRICATION THEREOF
	405/203			.Floatable to site and supported by marine floor
4	405/207	(1 OR, 3 XR)		
	Class	405	:	HYDRAULIC AND EARTH ENGINEERING
	405/195.1			MARINE STRUCTURE OR FABRICATION THEREOF
	405/203			.Floatable to site and supported by marine floor

10697293\_CLSTITLES

- 405/205           ..With ballasting means to sink or position  
                  structure at site
- 405/207           ...Compartment in base
  
- 4   405/210           (1 OR, 3 XR)  
      Class   405 :   HYDRAULIC AND EARTH ENGINEERING  
      405/195.1       MARINE STRUCTURE OR FABRICATION THEREOF  
      405/210        .Storage container
  
- 4   405/224           (3 OR, 1 XR)  
      Class   405 :   HYDRAULIC AND EARTH ENGINEERING  
      405/195.1       MARINE STRUCTURE OR FABRICATION THEREOF  
      405/224        .With anchoring of structure to marine floor
  
- 4   441/3            (1 OR, 3 XR)  
      Class   441 :   BUOYS, RAFTS, AND AQUATIC DEVICES  
      441/1           BUOY  
      441/3           .For mooring a vessel
  
- 3   62/533           (1 OR, 2 XR)  
      Class   062 :   REFRIGERATION  
      62/56           PROCESSES  
      62/532          .Fractionally solidifying a constituent and  
                      separating the same  
      62/533          ..Including direct contact with added  
                      refrigerant
  
- 3   114/230.14       (2 OR, 1 XR)  
      Class   114 :   SHIPS  
      114/230.1       MOORING DEVICE  
      114/230.13      .Including tower or riser connected to sea  
                      floor (e.g., column, mast)  
      114/230.14      ..Having boom means
  
- 3   114/264           (1 OR, 2 XR)  
      Class   114 :   SHIPS  
      114/264        FLOATING PLATFORM
  
- 3   114/67A           (1 OR, 2 XR)  
      Class   114 :   SHIPS  
      114/65R        BUILDING  
      114/67R        .Antifriction surfaces  
      114/67A        ..Air and oil films
  
- 3   210/242.3        (1 OR, 2 XR)  
      Class   210 :   LIQUID PURIFICATION OR SEPARATION  
      210/241        WITH MOVABLE SUPPORT  
      210/242.1      .Float



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210/242.3 ..With oil water skimmer

3 250/339.11 (2 OR, 1 XR)

Class 250 : RADIANT ENERGY

250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC  
SIGNALLING

250/338.1 ..Infrared responsive

250/339.01 ..With selection of plural discrete wavelength

or bands

250/339.06 ...With radiation source

250/339.11 ....Measuring infrared radiation reflected fro

sample

3 342/26R (3 OR, 0 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/26R Radar for meteorological use

3 356/301 (0 OR, 3 XR)

Class 356 : OPTICS: MEASURING AND TESTING

356/300 BY DISPERSED LIGHT SPECTROSCOPY

356/301 ..With Raman type light scattering

3 356/342 (1 OR, 2 XR)

Class 356 : OPTICS: MEASURING AND TESTING

356/337 BY PARTICLE LIGHT SCATTERING

356/338 ..With photocell detection

356/342 ..Of back-scattered light

3 405/204 (0 OR, 3 XR)

Class 405 : HYDRAULIC AND EARTH ENGINEERING

405/195.1 MARINE STRUCTURE OR FABRICATION THEREOF

405/203 ..Floatable to site and supported by marine  
floor

405/204 ..With assembly of sectional supporting  
structure at site

3 405/205 (2 OR, 1 XR)

Class 405 : HYDRAULIC AND EARTH ENGINEERING

405/195.1 MARINE STRUCTURE OR FABRICATION THEREOF

405/203 ..Floatable to site and supported by marine  
floor

405/205 ..With ballasting means to sink or position  
structure at site

3 426/524 (1 OR, 2 XR)

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Class 426 : FOOD OR EDIBLE MATERIAL: PROCESSES,  
COMPOSITIONS, AND PRODUCTS  
426/665 PROCESSES  
426/524 .Cooling, freezing, or treating cooled or  
frozen product, e.g., thawing, etc.

2 37/322 (0 OR, 2 XR)  
Class 037 : EXCAVATING  
37/307 BENEATH A BODY OF WATER (E.G., DREDGER)  
37/317 .Suction  
37/321 ..With means to introduce lift agent directly  
into suction pipe  
37/322 ...With downstream directed jet nozzle

2 37/329 (0 OR, 2 XR)  
Class 037 : EXCAVATING  
37/307 BENEATH A BODY OF WATER (E.G., DREDGER)  
37/317 .Suction  
37/324 ..Including driven digger adjacent suction  
inlet (e.g., cutterhead dredger)  
37/326 ...Rotary  
37/329 ....Axis transverse with respect to suction  
pipe

2 37/343 (0 OR, 2 XR)  
Class 037 : EXCAVATING  
37/307 BENEATH A BODY OF WATER (E.G., DREDGER)  
37/342 .With means to scour or scrape (e.g., propelle  
means, digging teeth, plow)  
37/343 ..Rotary digging element

2 40/552 (2 OR, 0 XR)  
Class 040 : CARD, PICTURE, OR SIGN EXHIBITING  
40/541 ILLUMINATED SIGN  
40/552 .Three-dimensional alphanumeric structure

2 40/564 (0 OR, 2 XR)  
Class 040 : CARD, PICTURE, OR SIGN EXHIBITING  
40/541 ILLUMINATED SIGN  
40/564 .Lamp box

2 62/1 (1 OR, 1 XR)  
Class 062 : REFRIGERATION  
62/1 CONSUMABLE PRODUCTS PRODUCED BY COOLING

2 62/140 (2 OR, 0 XR)  
Class 062 : REFRIGERATION

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62/132 AUTOMATIC CONTROL  
62/139 .By accumulation on freezing surface, e.g., ic

e

62/140 ..By frost, i.e., atmospheric condensate

2 62/151 (0 OR, 2 XR)  
Class 062 : REFRIGERATION  
62/132 AUTOMATIC CONTROL  
62/150 .Preventing, removing or handling atmospheric  
condensate  
62/151 ..Defrosting

2 62/354 (1 OR, 1 XR)  
Class 062 : REFRIGERATION  
62/340 MEANS PRODUCING SHAPED OR MODIFIED CONGEALED  
PRODUCT  
62/353 .Heat absorber with product remover  
62/354 ..Moving scraper

2 62/534 (1 OR, 1 XR)  
Class 062 : REFRIGERATION  
62/56 PROCESSES  
62/532 .Fractionally solidifying a constituent and  
separating the same  
62/533 ..Including direct contact with added  
refrigerant  
62/534 ...Liquid refrigerant converted to vapor phase  
during cooling

2 62/64 (1 OR, 1 XR)  
Class 062 : REFRIGERATION  
62/56 PROCESSES  
62/62 .Treating an article  
62/64 ..By contacting with liquid

2 62/74 (0 OR, 2 XR)  
Class 062 : REFRIGERATION  
62/56 PROCESSES  
62/66 .Congealing flowable material, e.g., ice makin

g

62/74 ..Spraying or dripping

2 73/170.26 (0 OR, 2 XR)  
Class 073 : MEASURING AND TESTING  
73/170.16 METEOROLOGY  
73/170.26 .Icing condition (e.g., accretion)

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- 2 114/242 (0 OR, 2 XR)  
     Class 114 : SHIPS  
     114/242 TOWING OR PUSHING
  
- 2 114/248 (1 OR, 1 XR)  
     Class 114 : SHIPS  
     114/242 TOWING OR PUSHING  
     114/248 .Nested vessels
  
- 2 114/249 (1 OR, 1 XR)  
     Class 114 : SHIPS  
     114/242 TOWING OR PUSHING  
     114/249 .Coupling means
  
- 2 114/74R (1 OR, 1 XR)  
     Class 114 : SHIPS  
     114/65R BUILDING  
     114/72 .Freighters  
     114/73 ..Bulk cargo  
     114/74R ...Liquid
  
- 2 126/343.5R (0 OR, 2 XR)  
     Class 126 : STOVES AND FURNACES  
     126/343.5R MELTING FURNACES
  
- 2 165/41 (1 OR, 1 XR)  
     Class 165 : HEAT EXCHANGE  
     165/41 WITH VEHICLE FEATURE
  
- 2 175/7 (0 OR, 2 XR)  
     Class 175 : BORING OR PENETRATING THE EARTH  
     175/5 BORING A SUBMERGED FORMATION  
     175/7 .Boring from floating support with submerged  
             independent anchored guide base
  
- 2 210/170 (1 OR, 1 XR)  
     Class 210 : LIQUID PURIFICATION OR SEPARATION  
     210/153 STRUCTURAL INSTALLATION  
     210/170 .Geographic (e.g., drainage ditch, septic,  
             pond)
  
- 2 210/242.1 (0 OR, 2 XR)  
     Class 210 : LIQUID PURIFICATION OR SEPARATION  
     210/241 WITH MOVABLE SUPPORT  
     210/242.1 .Float
  
- 2 210/923 (0 OR, 2 XR)

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Class 210 : LIQUID PURIFICATION OR SEPARATION  
 210/918 MISCELLANEOUS SPECIFIC TECHNIQUES  
 210/922 .Oil spill cleanup (e.g., bacterial, etc.)  
 210/923 ..Using mechanical means (e.g., skimmers, pump

etc.)

2 250/340 (0 OR, 2 XR)

Class 250 : RADIANT ENERGY  
 250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC  
 SIGNALLING  
 250/338.1 .Infrared responsive  
 250/340 ..Methods

2 250/574 (0 OR, 2 XR)

Class 250 : RADIANT ENERGY  
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS  
 250/216 .Optical or pre-photocell system  
 250/573 ..Fluent material in optical path  
 250/574 ...Scattered or reflected light

2 299/17 (0 OR, 2 XR)

Class 299 : MINING OR IN SITU DISINTEGRATION OF HARD  
 MATERIAL  
 299/10 PROCESSES  
 299/16 .Breaking down by direct contact with fluid  
 299/17 ..Jetting (e.g., hydraulic mining)

2 299/8 (2 OR, 0 XR)

Class 299 : MINING OR IN SITU DISINTEGRATION OF HARD  
 MATERIAL  
 299/7 WITH SEPARATION OF MATERIALS  
 299/8 .Separation below surface of earth or water

2 299/9 (0 OR, 2 XR)

Class 299 : MINING OR IN SITU DISINTEGRATION OF HARD  
 MATERIAL  
 299/7 WITH SEPARATION OF MATERIALS  
 299/9 .Material mined or excavated underwater

2 342/188 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/188 .With polarization

2 342/351 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS

10697293\_CLSTITLES  
AND DEVICES

342/350 DIRECTIVE  
342/351 .Including a radiometer

2 342/460 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/450 .Position indicating (e.g., triangulation)  
342/460 ..Storm or atomic explosion location

2 343/709 (2 OR, 0 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/709 .Waterborne (e.g., buoyant or with watercraft)

2 343/719 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/719 .Buried underground or submerged under water

2 343/861 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/850 .With coupling network or impedance in the  
leadin  
343/860 ..Impedance matching network  
343/861 ...Adjustable

2 356/338 (2 OR, 0 XR)  
Class 356 : OPTICS: MEASURING AND TESTING  
356/337 BY PARTICLE LIGHT SCATTERING  
356/338 .With photocell detection

2 356/369 (0 OR, 2 XR)  
Class 356 : OPTICS: MEASURING AND TESTING  
356/364 BY POLARIZED LIGHT EXAMINATION  
356/369 .Of surface reflection

2 356/73 (2 OR, 0 XR)  
Class 356 : OPTICS: MEASURING AND TESTING  
356/73 PLURAL TEST

2 367/15 (0 OR, 2 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/14 SEISMIC PROSPECTING

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	367/15	.Offshore prospecting
2	367/21	(2 OR, 0 XR)
	Class 367	: COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/15	.Offshore prospecting
	367/21	..Signal processing
2	367/37	(0 OR, 2 XR)
	Class 367	: COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/37	.Land-reflection type
2	367/56	(0 OR, 2 XR)
	Class 367	: COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/37	.Land-reflection type
	367/38	..Signal analysis and/or correction
	367/56	...Particular source-receiver array
2	378/89	(0 OR, 2 XR)
	Class 378	: X-RAY OR GAMMA RAY SYSTEMS OR DEVICES SPECIFIC APPLICATION
	378/1	
	378/70	.Diffraction, reflection, or scattering analysis
	378/86	..Scatter analysis
	378/89	...Thickness or density analysis
2	405/169	(2 OR, 0 XR)
	Class 405	: HYDRAULIC AND EARTH ENGINEERING
	405/154.1	SUBTERRANEAN OR SUBMARINE PIPE OR CABLE LAYING  RETRIEVING, MANIPULATING, OR TREATING
	405/158	.Submerging, raising, or manipulating line of pipe or cable in or from marine environmen
t	405/169	..With assembling of line structure
2	405/196	(2 OR, 0 XR)
	Class 405	: HYDRAULIC AND EARTH ENGINEERING
	405/195.1	MARINE STRUCTURE OR FABRICATION THEREOF
	405/196	.With work deck vertically adjustable relative to floor
2	405/201	(1 OR, 1 XR)

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Class 405 : HYDRAULIC AND EARTH ENGINEERING  
 405/195.1 MARINE STRUCTURE OR FABRICATION THEREOF  
 405/201 .With horizontally movable work deck

2 405/212 (1 OR, 1 XR)

Class 405 : HYDRAULIC AND EARTH ENGINEERING  
 405/195.1 MARINE STRUCTURE OR FABRICATION THEREOF  
 405/211 .Structure protection  
 405/212 ..Fender

2 405/52 (1 OR, 1 XR)

Class 405 : HYDRAULIC AND EARTH ENGINEERING  
 405/52 FLUID CONTROL, TREATMENT, OR CONTAINMENT

2 426/643 (1 OR, 1 XR)

Class 426 : FOOD OR EDIBLE MATERIAL: PROCESSES,  
 COMPOSITIONS, AND PRODUCTS  
 426/531 PRODUCTS PER SE, OR PROCESSES OF PREPARING OR  
 TREATING COMPOSITIONS INVOLVING CHEMICAL

REACTION BY

ADDITION, COMBINING DIVERSE FOOD MATERIAL

, OR PERMANENT

ADDITIVE

426/641 .Animal derived material is an ingredient othe

r

than extract or protein

426/643 ..Seafood

2 440/113 (2 OR, 0 XR)

Class 440 : MARINE PROPULSION  
 440/113 MISCELLANEOUS

2 440/33 (0 OR, 2 XR)

Class 440 : MARINE PROPULSION  
 440/33 TOWING

2 441/4 (0 OR, 2 XR)

Class 441 : BUOYS, RAFTS, AND AQUATIC DEVICES  
 441/1 BUOY  
 441/3 .For mooring a vessel  
 441/4 ..Having liquid cargo transfer means

2 441/5 (0 OR, 2 XR)

Class 441 : BUOYS, RAFTS, AND AQUATIC DEVICES  
 441/1 BUOY  
 441/3 .For mooring a vessel  
 441/4 ..Having liquid cargo transfer means  
 441/5 ...Having swivel coupling for cargo conduit



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2 702/172 (0 OR, 2 XR)  
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR  
TESTING  
702/127 MEASUREMENT SYSTEM  
702/155 .Dimensional determination  
702/170 ..Thickness or width  
702/172 ...By radiant energy (e.g., X-ray, light)

2 702/3 (2 OR, 0 XR)  
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR  
TESTING  
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT  
702/2 .Earth science  
702/3 ..Weather

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 according 6  
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case 1  
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ridging 1  
right 4  
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roughness 1  
rtm 1  
sa 1  
same 2  
sar 30  
satellite 1  
scattering 2  
sea 42  
seasonal 1  
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sensing 1  
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shows 11  
showing 1  
significance 1  
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small 1  
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standard 3  
submarine 1  
such 1  
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supposed 1  
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